

#### 5.0X6.0mm SURFACE MOUNT LED LAMP

AA5060SEC/E

HYPER ORANGE

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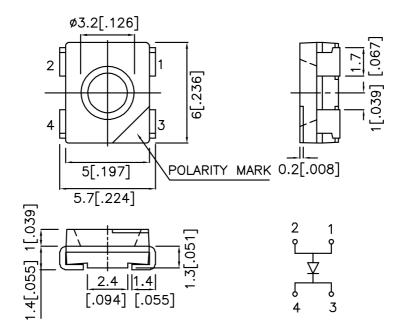
### **Features**

- SINGLE COLOR.
- SUITABLE FOR ALL SMT ASSEMBLY AND SOLDER PROCESS.
- AVAILABLE ON TAPE AND REEL.
- IDEAL FOR BACKLIGHTING.
- PACKAGE: 500PCS / REEL.

#### **Description**

The Hyper Orange source color devices are made with DH InGaAIP on GaAs substrate Light Emitting Diode.

### **Package Dimensions**



#### Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is  $\pm 0.25(0.01")$  unless otherwise noted.
- 3. Specifications are subject to change without notice.

SPEC NO: DSAD0899 REV NO: V.3 DATE: MAR/24/2004

APPROVED: J. Lu CHECKED: Allen Liu DRAWN: L.L.NIE

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#### **Selection Guide**

Part No.	Dice	lv (mcd) Dice Lens Type @ 50mA		,	Viewing Angle
			Min.	Тур.	201/2
AA5060SEC/E	HYPER ORANGE(InGaAIP)	WATER CLEAR	650	1000	100°

#### Note:

## Electrical / Optical Characteristics at T<sub>A</sub>=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Orange	630		nm	IF=20mA
λD	Dominate Wavelength	Hyper Orange	621		nm	Ir=20mA
Δλ1/2	Spectral Line Half-width	Hyper Orange	20		nm	IF=20mA
С	Capacitance	Hyper Orange	25		pF	VF=0V;f=1MHz
VF	Forward Voltage	Hyper Orange	2.0	2.5	V	IF=20mA
IR	Reverse Current	Hyper Orange		10	uA	VR = 5V

## Absolute Maximum Ratings at TA=25°C

Parameter	Hyper Orange	Units
Power dissipation	125	mW
DC Forward Current	50	mA
Peak Forward Current [1]	195	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	

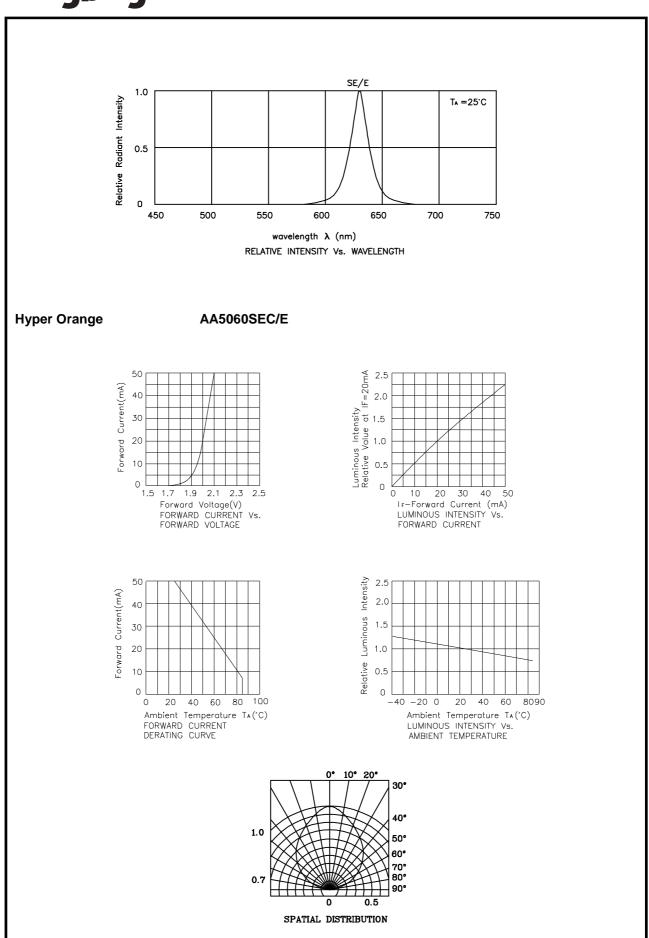
#### Note

1. 1/10 Duty Cycle, 0.1ms Pulse Width.

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 $<sup>1.\,\</sup>theta 1/2 \text{ is the angle from optical centerline where the luminous intensity is } 1/2 \text{ the optical centerline value}.$ 

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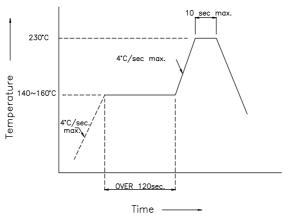
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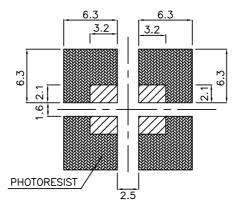
## **SMT Reflow Soldering Instructions**

Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and second soldering process.

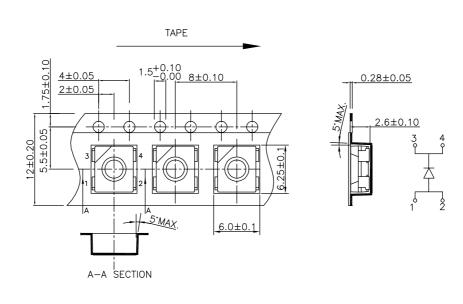


## **Recommended Soldering Pattern**

(Units: mm)



## **Tape Specifications** (Units: mm)



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